Amendments to the Claims:

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1 - 15 (cancelled)

Claim 16 (new) An *in vitro* method for testing the inflammatory effect of a test material comprising

introducing a test material comprising an inflammatory agent into a system comprising epithelial cells of gastrointestinal, respiratory or genitourinary origin which interact with the immune system and cells of the immune system and

determining the change in an immunological marker in response to the test material, the cells which interact with the immune system being on a microporous support.

Claim 17 (new) The method of claim 16, wherein the cells of the immune system are peripheral blood mononuclear cells.

Claim 18 (new) The method of claim 16, wherein the cells which interact with the immune system and the immune system cells are of matched origin.

Claim 19 (new) The method of claim 18, wherein the cells of the immune system are of gastrointestinal, respiratory or genitourinary origin.

Claim 20 (new) The method of claim 16, wherein the cells which interact with the immune system are in the form of a monolayer.

Claim 21 (new) The method of claim 16, wherein the immunological marker is a cytokine.

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Claim 22 (new) The method of claim 21, wherein the cytokine is $TNF\alpha$.

Claim 23 (new) The method of claim 21, wherein the cytokine is IL8.

Claim 24 (new) The method of claim 16, wherein the inflammatory effect is an anti-inflammatory effect.

Claim 25 (new) The method of claim 16, wherein the inflammatory effect is a proinflammatory effect.

Claim 26 (new) The method of claim 16, wherein the test material is a probiotic material.

Claim 27 (new) The method of claim 16, wherein the test material includes a strain of *Bifidobacterium*.

Claim 28 (new) The method of claim 16, wherein the test material includes a strain of *Lactobacillus*.

Claim 29 (new) A method for testing the inflammatory effect of a test material comprising the steps of:

placing a microporous support having a layer of epithelial cells of gastrointestinal, respiratory or genitourinary origin thereon which interact with the immune system in contact with a nutrient medium in a culture well;

introducing a composition containing cells of the immune system to the medium; subsequently introducing a test material comprising or suspected of comprising an inflammatory agent to either one or both cells; and

determining the change in an immunological marker in response to the test material.

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The method of claim 29, wherein the cells of the immune system Claim 30 (new) are peripheral blood mononuclear cells.

Claim 31 (new) The method of claim 29, wherein the epithelial cells and the immune system cells are of matched origin.

The method of claim 31, wherein the cells of the immune system Claim 32 (new) are of gastrointestinal, respiratory or genitourinary origin.

The method of claim 29, wherein the layer is a monolayer. Claim 33 (new)

The method of claim 29, wherein the immunological marker is a Claim 34 (new) cytokine.

Claim 35 (new) The method of claim 34, wherein the cytokine is $TNF\alpha$.

The method of claim 34, wherein the cytokine is IL8. Claim 36 (new)

The method of claim 29, wherein the inflammatory effect is an Claim 37 (new) anti-inflammatory effect.

The method of claim 29, wherein the inflammatory effect is a pro-Claim 38 (new) inflammatory effect.

Claim 39 (new) The method of claim 29, wherein the test material is a probiotic material.

The method of claim 29, wherein the test material includes a strain Claim 40 (new) of Bifidobacterium.

The method of claim 29, wherein the test material includes a strain Claim 41 (new) of Lactobacillus.